

## REMARKS

Claims 1-21 are currently pending in the application, and Applicant thanks Examiner for the indication that claims 1-21 are allowed, pending amendments to the claims, specification and drawings. By this amendment, the specification, claims 1, 13 and 19 and certain of the drawings (2, 3, 4, 5 and 6) are amended. The foregoing separate sheets marked as "Listing of Claims" show all the claims in the application, with an indication of the current status of each.

### Drawings

Examiner has objected to the drawings as failing to comply with 37 CFR 1.84(p)(5) due to including reference characters not mentioned in the description. The drawings have hereby been corrected (either directly or by corrections to the specification) as follows:

**Figure 1:** Examiner states that "FSOURCE C4 PAD" is not mentioned in the specification. Applicant disagrees with Examiner on this point, and notes that line 7 of paragraph 11 states, with respect to Figure 1, that a single FSOURCE fatwire IO cell is "connected to an *FSOURCE C4 pad*" (emphasis added). Thus, no correction of Figure 1 with respect to this phrase is being made at this time.

Examiner states that the phrases: [0 ... up to 63], [0...3] and [0...1] in Figure 1 were not mentioned in the specification. Due to the amendments to the specification discussed below, the paragraph of the application discussing Figure 1 (first paragraph inserted after paragraph 37 formerly paragraph 11, see amendments to specification below) includes the phrases [0 ... up to 63], [0...3] and [0...1], thereby addressing this objection.

Examiner states that the reference character "FSOURCE IO Cell" in Figure 1 is not mentioned in the specification. The specification has hereby been amended to recite "FSOURCE IO cell" instead of "FSOURCE IO fatwire cell" in the section of the specification where Figure 1 is discussed (first paragraph inserted after paragraph 37, formerly paragraph 11, see amendments to specification below).

**Figure 2:** Examiner states that the reference character "locations" (as in "C4 locations") is not mentioned in the specification. Figure 2 has hereby been amended to state "C4 pads" (i.e. "pads" instead of "locations"), the term "pads" appearing in the discussion of Figure 2 (second

paragraph inserted after paragraph 37, formerly paragraph 15, see amendments to specification below).

Examiner objects to the reference character "FSOURCE IO Cell". The specification has hereby been amended to recite "FSOURCE IO cell" instead of "FSOURCE IO fatwire cell" in the section of the specification where Figure 2 is discussed (second paragraph inserted after paragraph 37, formerly paragraph 15, see amendments to specification below).

**Figure 3.** Examiner states that the reference character "FUSE Control" is not mentioned in the specification. Rather, in previous references to this element, it has been referred to as a "FUSE Controller" (see Figure 1). Figure 3 has hereby been amended so that this reference character reads "FUSE Controller" rather than "FUSE Control", consistent with the specification and Figure 1.

Examiner objects to the use of the reference character "FSOURCE IO Cell" in Figure 3. The specification has hereby been amended to recite "FSOURCE IO cell" instead of "FSOURCE IO fatwire" in the section of the specification where Figure 3 is discussed (third paragraph inserted after paragraph 37, formerly paragraph 16, see amendments to specification below).

**Figure 4:** Examiner states that the reference character "FUSE Control" is not mentioned in the specification. Rather, in previous references to this element, it has been referred to as a "FUSE Controller" (see Figure 1). Figure 4 has hereby been amended so that this reference character reads "FUSE Controller" rather than "FUSE Control", consistent with the specification and Figure 1.

Examiner objects to the use of the reference character "FSOURCE IO Cell" in Figure 4. The specification has hereby been amended to recite "FSOURCE IO cell" instead of "FSOURCE fatwire IO" in the section of the specification where Figure 3 is discussed (third paragraph inserted after paragraph 37, formerly paragraph 17, see amendments to specification below).

**Figure 5:** Examiner states that the reference character "FUSE Control" is not mentioned in the specification. Rather, in previous references to this element, it has been referred to as a "FUSE Controller" (see Figure 1). Figure 5 has hereby been amended so that this reference character reads "FUSE Controller" rather than "FUSE Control", consistent with the specification and Figure 1.

Examiner objects to the use of the reference character "FSOURCE IO Cell" in Figure 5. The specification has hereby been amended to recite "FSOURCE IO cell" instead of "FSOURCE fatwire IO" in the section of the specification where Figure 5 is discussed (lines 7 and 9, paragraph 21).

Examiner objects to the use of the phrase "Minimal Solution to Solve Placement Problem" as a reference character in Figure 5. Paragraph 38 of the specification has hereby been amended to specifically recite "minimal solution..." in order to address this objection.

**Figure 6.** Examiner objects to the use of the phrase "Create on new FSOURCE C4" in step 5 of Figure 6. Figure 6 has hereby been amended to eliminate this phrase and replace it with the following: "Increase number of FSOURCE C4s by one". Applicant submits that this language is taken directly from the specification (see paragraph 55 of the application as filed).

Applicant submits that these amendments to the drawings, or amendments to the specification that in some manner impact the drawings, do not constitute the addition of new matter. Rather, they make the language of the drawings and specification consistent with one another. Further, upon approval of the drawing amendments by the Examiner, Applicant will submit new formal drawings for the application.

In view of the foregoing, Applicant respectfully requests reconsideration and withdrawal of these objections to the drawings.

**Specification** (Examiner's point #3). The Examiner has objected to the specification because in the opinion of the Examiner, the description of Figures 1-4 should be placed under the Detailed Description since they are not disclosed as Prior Art embodiments. Accordingly paragraphs 11 and 15-19 have been deleted from the Background section and inserted between paragraphs 37 and 38 (i.e. just after paragraph 37 and just before paragraph 38) in the Detailed Description.

Applicant submits that this amendment does not add any new matter, being entirely formal in nature, and respectfully requests reconsideration and withdrawal of this objection.

**Claim Objections** (Examiner's point #4) The Examiner has objected to claims 1 and 19 because: 1) there is no antecedent basis of "the flexibility of placement" (line 1); and 2) because the connective relationship between a circuit and said functional elements (line 3) is not defined.

Applicant has hereby amended claim 1 to recite "flexibility of placement" instead of "the flexibility of placement", thereby making moot this portion of the objection.

Applicant hereby amends claim 19 to recite that the circuit is "connected to" said functional elements.

Applicant submits that these amendments do not add any new matter, being entirely formal in nature, and respectfully requests reconsideration and withdrawal of these objections.

**Other matters**

Claim 13 has hereby been amended to place the prepositional phrase "in parallel" directly after the word that it modifies ("fuses") in order to improve syntax.

Paragraphs 9, 38 and 39 have hereby been amended to recite "IO cell" rather than "IO fatwire cell" in order to be consistent with the description.

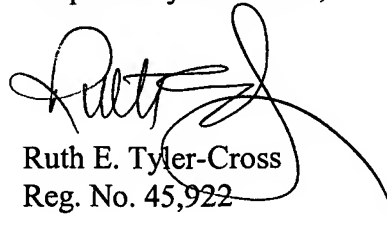
**Conclusion**

In view of the foregoing, it is requested that the application be reconsidered, that the amended drawings, claims and specification be approved, and that the application be passed to issue. Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at 703-787-9400 (fax: 703-787-7557; email: ruth@wcc-ip.com) to discuss any other changes deemed necessary in a telephonic or personal interview.

If an extension of time is required for this response to be considered as being timely filed, a conditional petition is hereby made for such extension of time. Please charge any deficiencies in fees and credit any overpayment of fees to Attorney's Deposit Account No. 50-2041.

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Respectfully submitted,



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**Amendments to the Drawings**

The attached drawings sheets 2, 3, 4, 5 and 6 (containing Figures 2, 3, 4, 5, and 6) replace the original drawing sheets 2, 3, 4, 5, and 6.